



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL WEATHER OUTLOOK

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 22.05.2025

TROPICAL WEATHER OUTLOOK FOR THE NORTH INDIAN OCEAN (THE BAY OF BENGAL AND THE ARABIAN SEA) VALID FOR THE NEXT 168 HOURS ISSUED AT 0700 UTC OF 22.05.2025 BASED ON 0300 UTC OF 22.05.2025.

BAY OF BENGAL:

A low-pressure area is likely to form over westcentral and adjoining north Bay of Bengal around 27th May, 2025. It is likely to become more marked during subsequent 2 days.

Scattered low and medium clouds with embedded intense to very intense convection lay over north Bay of Bengal, westcentral Bay of Bengal, south Andaman Sea. Scattered low and medium clouds with embedded moderate to intense convection lay over rest of Bay of Bengal, north Andaman Sea.

*PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	NIL	NIL	NIL	NIL	LOW	MOD

*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY

ARABIAN SEA:

Under the influence of the upper air cyclonic circulation over Eastcentral Arabian Sea off North Karnataka-Goa coasts, a low-pressure area formed over Eastcentral Arabian Sea off south Konkan-Goa coasts at 0000 UTC and persisted over same region at 0300 UTC of today, the 22nd May, 2025. It is likely to move nearly northwards and intensify further into a depression during next 36 hours. There is also possibility of its further intensification thereafter.

Associated scattered to broken low and medium clouds with embedded intense to very intense convection over eastcentral Arabian Sea, south Konkan. Minimum cloud top temperature -60°C to -85°C .

Scattered to broken low and medium clouds with embedded intense to very intense convection lay over eastcentral Arabian Sea off Maharashtra coast. Scattered low and medium clouds with embedded moderate to intense convection lay over westcentral Arabian Sea, south Arabian Sea, Lakshadweep Islands, Maldives & Comorin area.

*PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION) DURING NEXT 168 HRS:

24 HOURS	24-48 HOURS	48-72 HOURS	72-96 HOURS	96-120 HOURS	120-144 HOURS	144-168 HOURS
NIL	MOD	HIGH	HIGH	HIGH	HIGH	HIGH

*NOTE: EVERY 24HR FORECAST IS VALID UPTO 0300 UTC (0830 IST) OF NEXT DAY

REMARKS: Madden Julian Oscillation (MJO) index is in phase 4 with amplitude close to 1. It will continue in same phase during next 3 days. Thereafter, it will move across phase 5 and 6 for subsequent 4 to 5 days. Sea Surface Temperature is 30°C - 32°C over entire BoB and Arabian Sea.

(A) Arabian Sea:

Currently, Low pressure area over eastcentral Arabian Sea is in a favorable environment with low to moderate vertical wind shear. Moderate poleward outflow and favorable sea conditions. Equatorial waves including Rossby wave and Kelvin wave with strong westerly wind anomaly over south Arabian Sea (5 to 7 mps) and easterly wind anomaly over eastcentral Arabian Sea (5 to 7 mps) are prevailing over the region. All these features indicate a favorable environment for genesis over Arabian Sea. Currently there is large divergence among models with respect to intensification and movement. However, all models are indicating nearly northwards movement along the coast and intensification into depression by 24th May.

(B) Bay of Bengal:

The conditions over BoB are becoming favorable for development of low-pressure area over west central Bay of Bengal around 27th May. Currently there is large divergence among models with respect to intensification and movement. However, there is consensus about development of low-pressure area around 27th May and its further intensification during subsequent 2 days.

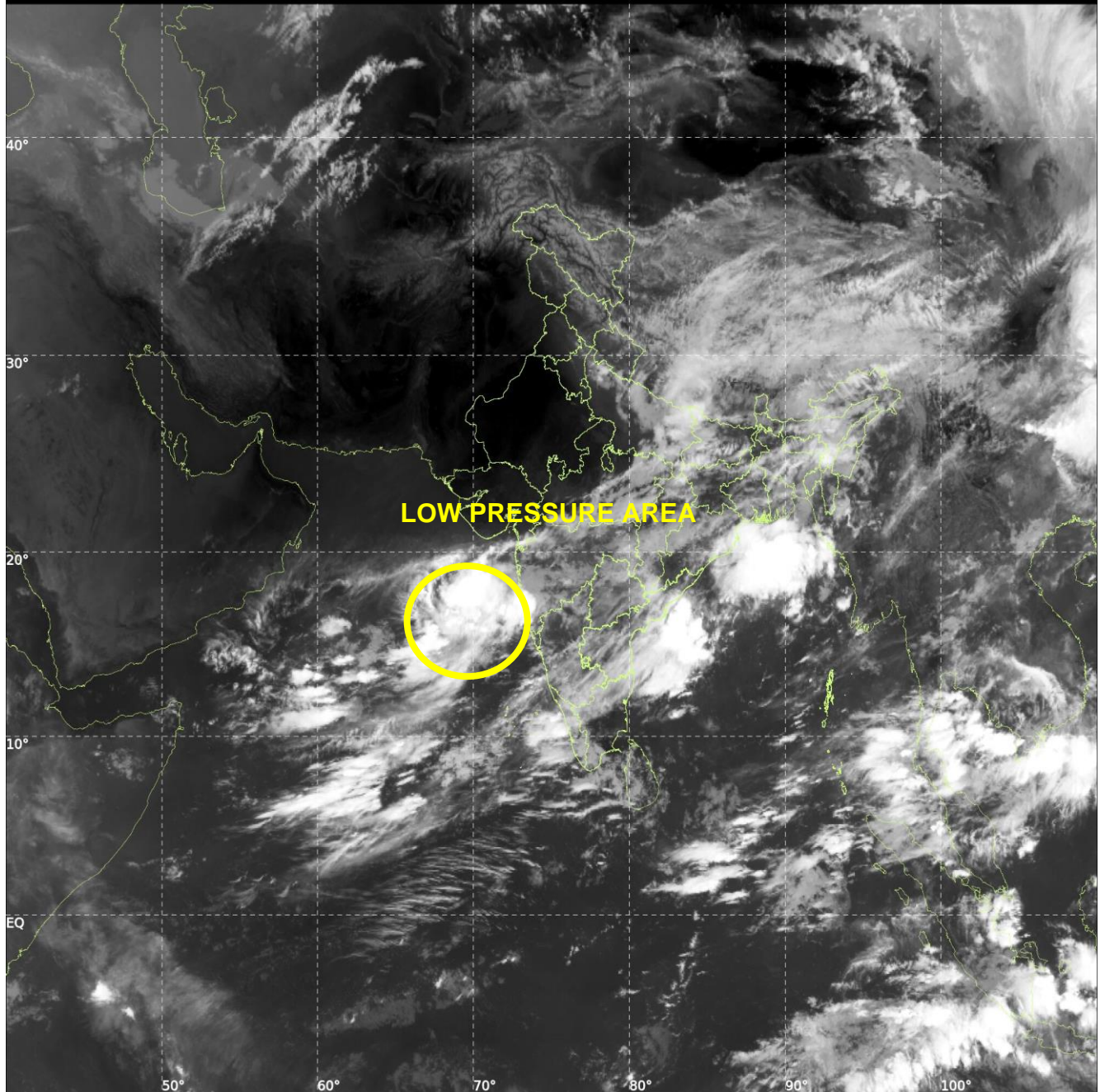
Considering all the above, moderate to high probability has been assigned for development of depression over eastcentral Arabian Sea from 23rd May onwards and low to moderate probability has been assigned for development of depression over Bay of Bengal from 28th May onwards.



INSAT-3DS IMG, Thermal Infrared1 Count @ 10.83 μm
GMT:22-05-2025/(0300-0327) IST:22-05-2025/(0830-0857)
L1C MERCATOR (LINEAR STRETCH: 1%)

412

907



Cloud distribution: (a) Isolated: <25%, Scattered:25-50%, Broken: 51-75%, Solid:>75%, Convection Intensity: (a) Weak: Cloud Top Temperature(CTT)>-25°C,(b)Moderate:CTT:-25°Cto-40°C,(c)Intense:CTT: -41°Cto -70°Cand(d)Very Intense::Less than -70°C
PROBABILITYOFCYCLOGENESIS(FORMATIONOFDEPRESSION):NIL:0%,LOW:1-33%,MODERATE:34-66%ANDHIGH:67-100%
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